



# Scarcity, Conflict & Security: Seeking Solutions for Transboundary Waters in Israeli/Palestinian Peace Negotiations

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Greening Borders: Cooperation, Security and Diplomacy  
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## *Population (2008)*

- Palestinian Gaza = 1.4 M
- Palestinian West Bank = 2.4 M
- Israel = 7.4 M

## *Land Area*

- Palestinian Gaza = 140 mi<sup>2</sup>
- Palestinian WB = 2,250 mi<sup>2</sup>
- Israel = 7,900 mi<sup>2</sup>







# Availability of Renewable Water Resources in the Jordan Basin & Gaza (m<sup>3</sup> / person / year)

	Israeli Stats*	World Bank Stats**
Gaza	---	125 (2005)
West Bank	105 (2007)	75 (2005)
Israel	153 (2007)	240 (2005)
Jordan	172 (2008)	200 (2005)
Lebanon	949 (2008)	1200 (2005)
Syria	861 (2008)	1500 (2005)

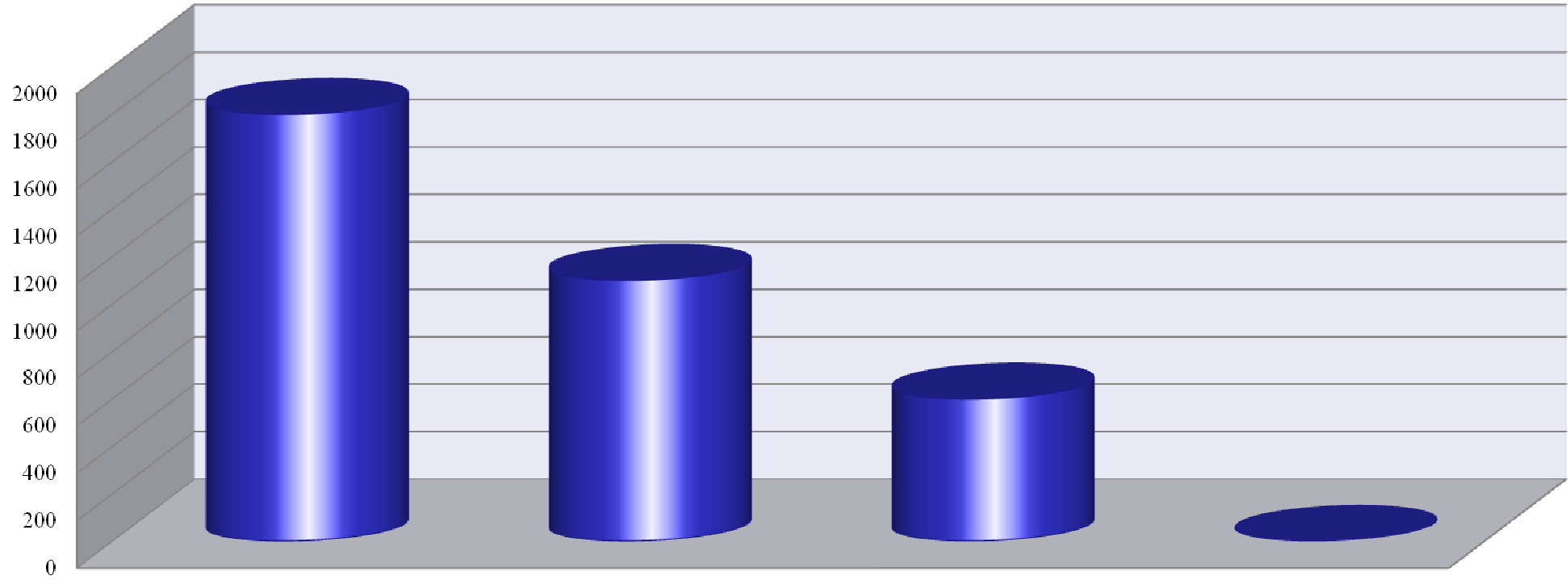
\* Israel Water Authority, *The Issue of Water between Israel and the Palestinians* (March 2009)

\*\* The World Bank, *Assessment of Restrictions on Palestinian Water Sector Development* (April 2009)

# Water Needed to Support Human Life

Based on the Falkenmark Water Stress Index

Availability of fresh water resources in meters<sup>3</sup>/person/year



Minimum  
adequate water  
resources



Water  
stress



High water  
stress / chronic  
water scarcity



Inadequate  
water  
resources

# Availability of Freshwater in 2000

## Average River Flows and Groundwater Recharge

90,000  
m<sup>3</sup>/pers./yr



10,000  
m<sup>3</sup>/pers./yr



Pacific  
Ocean

Pacific  
Ocean

Atlantic  
Ocean

Indian  
Ocean

### Countries with the least freshwater resources

Egypt	:	26
United Arab Emirates	:	61

### Countries with the most freshwater resources

Suriname	:	479 000
Iceland	:	605 000



Data not available

0 1 000 1 700 5 000 15 000 50 000 605 000 m<sup>3</sup> per capita per year



# Availability of Freshwater in 2000

## Availability of Renewable Water Resources in the Jordan Basin & Gaza

### (m<sup>3</sup> / person / year)

90,000  
m<sup>3</sup>/pers./yr



10,000  
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United Arab Emirate

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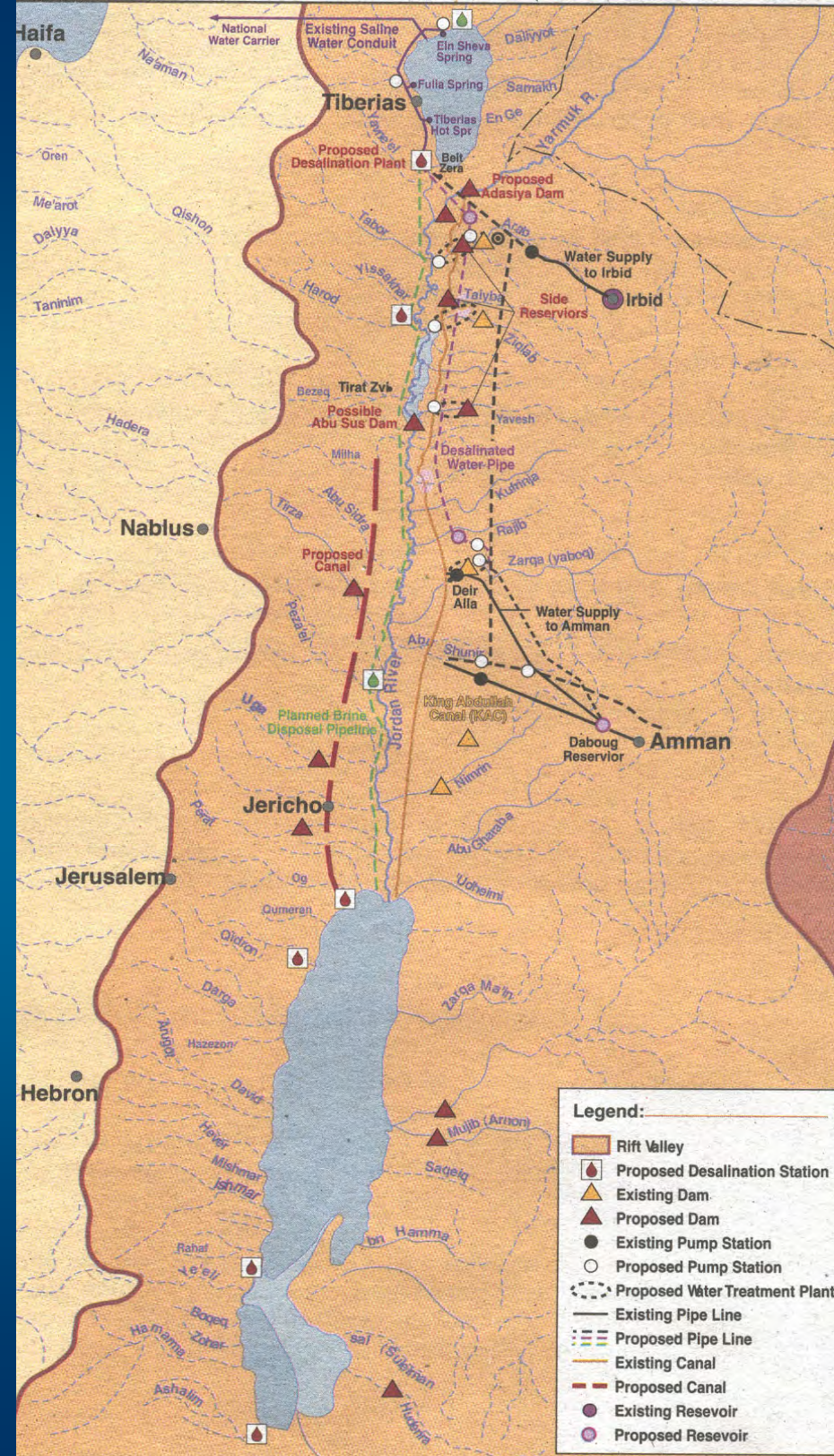
# Jordan River Basin

- Source: Banias, Dan, & Hasbani
- Shared with Jordan, Lebanon, Syria & West Bank
- Completely allocated b/w Israel & Jordan



# Jordan River Basin

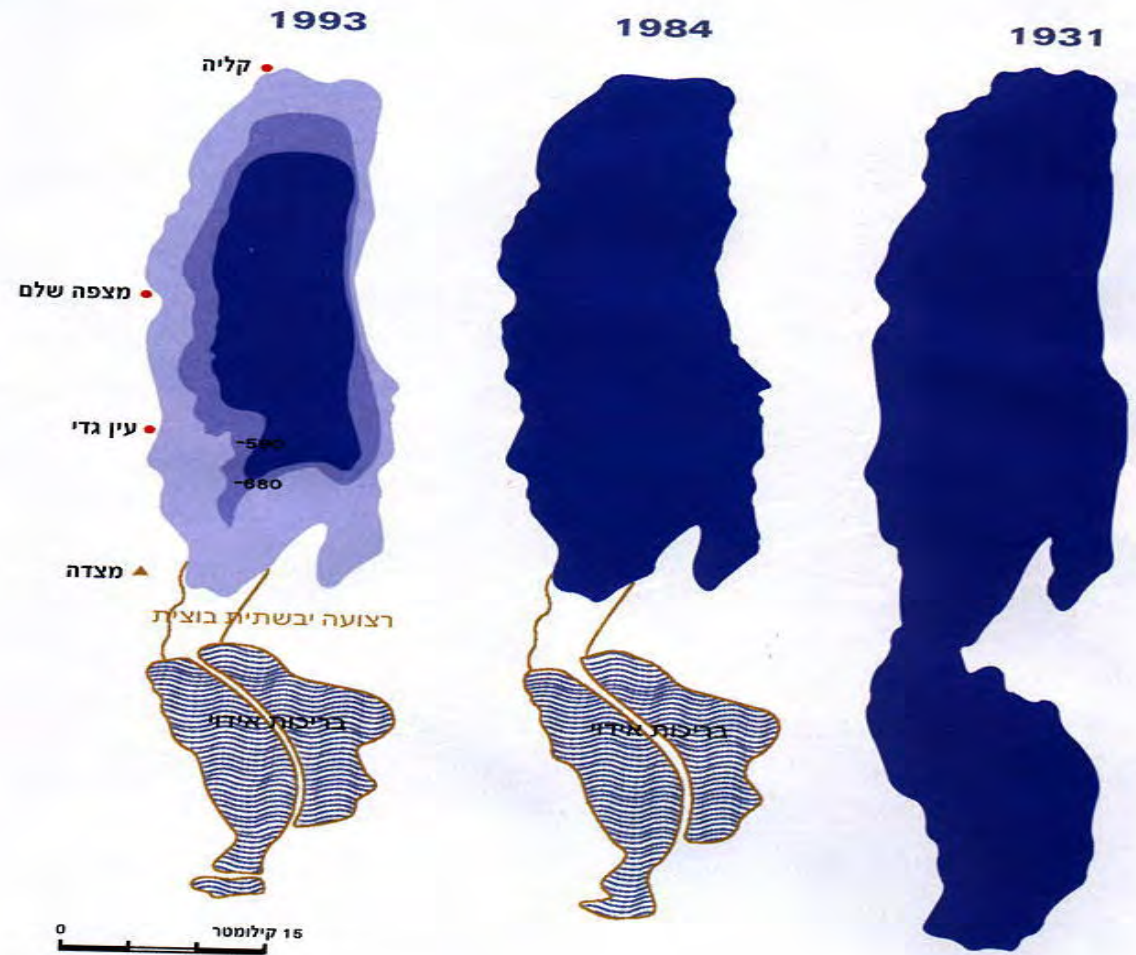
- The National Water Carrier (NWC)
- Drinking Water Pipeline
- Effluent Water Pipeline
- Brackish Water Pipeline
- Settlements
- Water Reservoir
- Water Tank
- Pumping Station
- Water Drill
- WTP Wastewater Treatment Plant
- Reclaimed Water Station
- Reclaimed Water Reservoir
- Reclaimed Water Tank
- ▲ Desalination Plant
- Brackish Water Drill
- ▲ Filtration Plant
- ▲ Command and Control Center
- Visitor Center
- Laboratory
- Rain Enhancement Department



- Legend:**
- Rift Valley
  - Proposed Desalination Station
  - ▲ Existing Dam
  - ▲ Proposed Dam
  - Existing Pump Station
  - Proposed Pump Station
  - Proposed Water Treatment Plant
  - Existing Pipe Line
  - Proposed Pipe Line
  - Existing Canal
  - Proposed Canal
  - Existing Reservoir
  - Proposed Reservoir

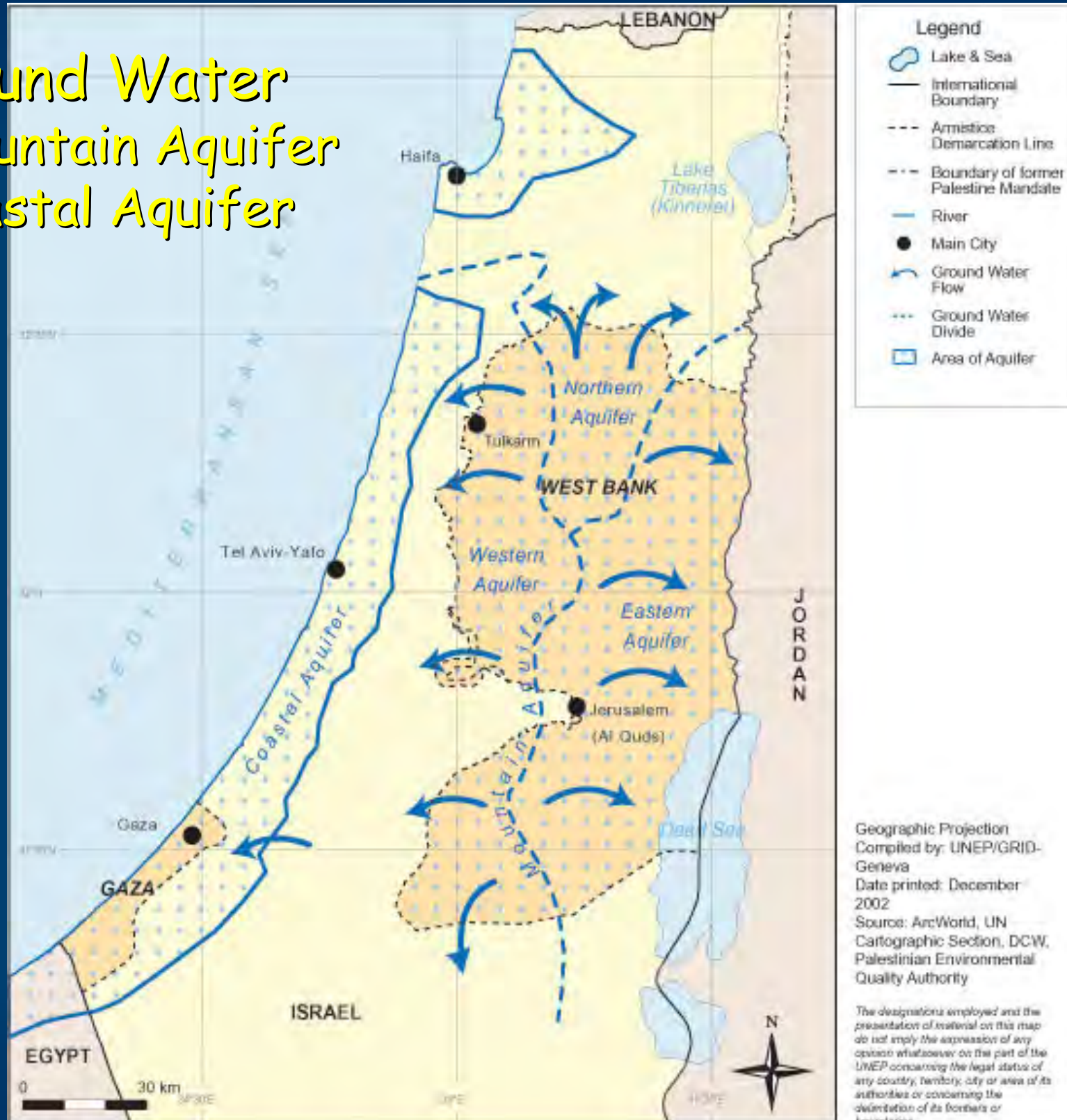
# Jordan River Basin

- Dead Sea has lost 1/3 of surface area
- Dropping by over 1 meter every year



# Ground Water

- Mountain Aquifer
- Coastal Aquifer



# *Claims to the Water*

## Israel

- ❖ Historical tie to the land
- ❖ Historical use of the water
- ❖ Sovereignty
- ❖ Current reliance
- ❖ Security
- ❖ Injury from loss of use

## Palestine

- ❖ Historical tie to the land
- ❖ Historical use of the water
- ❖ Sovereignty
- ❖ Equity
- ❖ Human rights and basic needs
- ❖ Humanitarian law

# Existing Agreements



## Israeli/Palestinian Agreements

- (1993) Declaration of Principles on Interim Self-Government Arrangements
- (1994) Agreement on the Gaza Strip and the Jericho Area, May 4, 1994, Annex II: Protocol Concerning Civil Affairs (Article II(B)(31) on Water and Sewage)
- (1995) The Israeli-Palestinian Interim Agreement on the West Bank and the Gaza Strip, 28 September 1995, Annex III: Protocol Concerning Civil Affairs (Article 40: Water and Sewage)
- (1996) Oslo Declaration of Principles for Cooperation Among the Core Parties on Water-Related Matters and New and Additional Waters (Multilateral Peace Process in the Middle East, Multilateral Working Group on Water Resources)
- (2001) Israel - Palestinian Joint Water Committee: Joint Declaration for Keeping the Water Infrastructure out of the Cycle of Violence, done at the Erez Crossing

## Israeli/Jordanian Agreement

- (1994) Treaty of Peace Between the State of Israel and the Hashemite Kingdom of Jordan (Annex II: Water & Related Matters)



Palestinian  
Peace  
Coalition



**YES TO AN  
AGREEMENT**  
The Geneva Initiative

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### In The Media

May 28, Former U.S Ambassador to Israel Prof. Dan Kurtzer reviews the importance of the issue of Israeli settlements to the future of the Peace Process

May 26, Ha'aretz: Key Fatah figure Ahmed Qureia (Abu Ala): "If we could present the Palestinian

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## An Israeli-Palestinian Initiative to End the Conflict

### In Focus

#### GI Supporter in the White House



White House chief of staff and Geneva Initiative supporter Ram Emanuels' Mid East Mission:

"this is a moment of truth for the state of Israel and the prospects for

### Get Involved



Welcome to the new Geneva Initiative





Palestinian Peace Coalition



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# Full Text

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## The Geneva Accord A Model Israeli-Palestinian Peace Agreement

Draft Permanent Status Agreement

### Preamble

The State of Israel (hereinafter "Israel") and the Palestine Liberation Organization (hereinafter "PLO"), the representative of the Palestinian people (hereinafter the "Parties");

- Reaffirming their determination to put an end to decades of confrontation and conflict, and to live in peaceful coexistence, mutual dignity and security based on a just, lasting, and comprehensive peace and achieving historic reconciliation;
- Recognizing that peace requires the transition from the logic of war and confrontation to the logic of peace and cooperation, and that acts and words characteristic of the state of war are neither appropriate nor acceptable in the era of peace;
- Affirming their deep belief that the logic of peace requires compromise, and that the only viable solution is a two-state solution based on UNSC Resolution 242 and 338;
- Affirming that this agreement marks the recognition of the right of the Jewish people to statehood and the recognition of the right of the Palestinian people to statehood, without prejudice to the equal rights of the Parties' respective citizens;
- Recognizing that after years of living in mutual fear and insecurity, both peoples need to enter an era of peace, security and stability, entailing all necessary actions by the parties to guarantee the realization of this era;

# Geneva Initiative Israeli/Palestinian Model Agreement

## Substantive Articles

- Just and rightful re-division of (Art. 3)
- No significant harm (Art. 4)
- Flexibility in water allocations (Art. 5)

## Procedural Articles

- Joint water commission (Art. 6)
- Establishment and maintenance of database (Art. 7)
- Establishment of Central Water Pollution Control and Quality Assurance Agencies (Art. 8)
- Regular exchange of data & information (Art. 9)
- Dispute settlement (Art. 10)

<http://www.geneva-accord.org/images/PDF/water.pdf>

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## Water

In memory of Dr. Fadia Debes

- Scope
- Definitions
- Just and Rightful Re-Division of Water
- Avoid the Causing of Significant Harm
- Flexibility in Water Allocations
- Joint Water Commission
- Establishment and Maintenance of a Database
- Establishment of Central Water Pollution Control and Quality Assurance Agencies
- Regular Exchange of Data and Information
- Dispute Settlement
- The Jordan River and Dead Sea
- Future Plans and Programs

**Thank you!**

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